

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

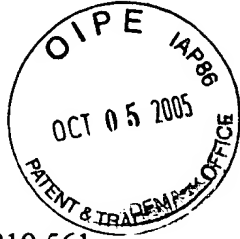
In re Application of:

Larry L. Hood

Application No.: 09/819,561

Filed: March 27, 2001

METHOD AND APPARATUS FOR  
MODIFICATIONS OF VISUAL ACUITY  
BY THERMAL MEANS



Examiner: David M. Shay

Art Group: 3739

**DECLARATION OF PETER S. HERSH UNDER 37 C.F.R. §1.132**

I, Peter S. Hersh, hereby declare that:


1. I am a practicing ophthalmologist. A copy of my Curriculum Vitae is attached as Exhibit A.
2. I have read the above entitled patent application.
3. I have also reviewed U.S. Patent No. 4, 907,586, issued to Bille et al. ("the Bille patent").
4. It is my opinion that Bille does not disclose a technique for denaturing corneal tissue to reshape a cornea. Bille discloses a procedure whereby corneal tissue is either ablated or changed to a semi-liquid form. It is my opinion that this is not "denaturing" tissue in the context of the above entitled application.

5. I reviewed and agree with the following statement that has been provided to the Patent Office by the Applicant to distinguish the claims of the above entitled application from the Bille patent. (Para. 3 from page 8 of the Amendment)

"Bille discloses applying a large amount of energy in the range of 10 megawatts to either fully ablate tissue, or modify tissue into a semi-liquid state. The claims recite denaturing tissue not ablating tissue. The claimed process provides enough energy to change the helical tissue structure without creating damage that causes the body to repair the denatured area. Changing the helical structure modifies the refractive power of the cornea. This is to be distinguished from Bille which discloses changing the tissue into a semi-liquid state. The Applicant contends that changing the tissue to a semi-liquid state will cause the body to repair the tissue back to the original state. This will cause regression in the change of refractive power. Bille does not disclose or suggest to merely denature the tissue."

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Dated: 9-22, 2005

  
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Peter S. Herish, MD, FACS



## CURRICULUM VITAE

**NAME:**

Peter S. Hersh, M.D., F.A.C.S.  
Director, Cornea and Laser Eye Institute-Hersh Vision Group  
Clinical Professor of Ophthalmology, UMDNJ-New Jersey Medical School  
Visiting Research Collaborator, Princeton University

Jan 2005

**OFFICE ADDRESS:**

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90 Bergen Street - 6th Floor  
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**EDUCATION****a. Undergraduate**

9/74 - 5/78 A.B. Princeton University

**b. Graduate and Professional**

6/78 - 5/82 M.D. Johns Hopkins University School of Medicine

**POSTDOCTORAL TRAINING****a. Internship and Residencies**

7/82 - 6/83 Internship in Internal Medicine  
Lenox Hill Hospital, New York

7/83 - 6/86 Residency, Ophthalmology  
Massachusetts Eye and Ear Infirmary  
Harvard Medical School, Boston

7/86 - 6/87 Fellowship, Cornea and External Disease  
Cornea Service

Massachusetts Eye and Ear Infirmary  
Harvard Medical School, Boston

**b. Research Fellowships**

5/79 - 8/79      Student Research Program in Diabetes, Endocrinology and Metabolism, Vanderbilt  
Medical School, Nashville, TN

**OTHER TRAINING AND CERTIFICATIONS**

11/86      Epikeratoplasty Certification Course  
Washington, D.C. Sponsored by Allergan Medical Optics

1989      Fellow, Castroviejo Corneal Society

4/92      Keratorefractive Surgery Certification Course  
Tufts-New England Medical Center  
Sponsored by Chiron Ophthalmics

10/93      Automated Lamellar Keratoplasty Certification Course  
New Brunswick, New Jersey  
Sponsored by Chiron Ophthalmics

5/96      LASIK Mini-Fellowship  
Stephen Slade, M.D. preceptor  
Sponsored by Chiron Vision  
Houston, Texas

6/99      Intracorneal Ring (INTACS) Certification Course  
Sponsored by Keravision, Inc.  
Chicago, IL

**MILITARY**

None

**LICENSURE**

1982	FLEX		
1982	New York Board of Medical Examiners	#152017	
1986	Massachusetts Board of Medical Examiners	#55999	
1988	New Jersey State Board of Medical Examiners	#52379	Exp. 06/30/2004

**BOARD CERTIFICATION**

1987	American Board of Ophthalmology, Diplomate	Certified 10/87
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## **NARCOTICS CERTIFICATION**

N.J. CDS #D052095      Exp. 08/31/2003  
DEA #AH2138180      Exp. 10/31/2003

## **UNIVERSITY ACADEMIC APPOINTMENTS**

1983-86	Clinical Fellow in Ophthalmology Harvard Medical School
1986-89	Instructor in Ophthalmology Harvard Medical School
1990-94	Assistant Professor Albert Einstein College of Medicine
1994-95	Associate Professor Albert Einstein College of Medicine
1995-99	Associate Professor UMDNJ-New Jersey Medical School
1999-2003	Professor UMDNJ-New Jersey Medical School
2003-present	Clinical Professor UMDNJ-New Jersey Medical School
2003-present	Visiting Research Collaborator Dept. of Mechanical and Aerospace Engineering Princeton University

## **HOSPITAL APPOINTMENTS**

1982-1983	Assistant in Medicine, Lenox Hill Hospital New York, New York
1983-1987	Assistant in Ophthalmology, Associate Staff Massachusetts Eye & Ear Infirmary Boston, Massachusetts
1987-1989	Assistant in Ophthalmology, Active Staff Massachusetts Eye & Ear Infirmary Boston, Massachusetts
1990-1995	Chairman, Dept of Ophthalmology Bronx Lebanon Hospital Center Bronx, New York
1990-1996	Assistant Attending in Ophthalmology

Montefiore Medical Center  
Bronx, New York

1990-1995     Attending, Provisional Staff  
Clara Maass Medical Center  
Belleville, New Jersey

1995-present     Attending in Ophthalmology  
University Hospital  
Newark, New Jersey

1995-present     Attending in Ophthalmology  
Hackensack University Medical Center  
Hackensack, New Jersey

#### **MAJOR ADMINISTRATIVE APPOINTMENTS**

1986-87     Assistant Director of Residency Training  
Massachusetts Eye and Ear Infirmary

1988-89     Assistant Director General Eye Service and  
Emergency Services  
Massachusetts Eye and Ear Infirmary

1988-89     Director, Massachusetts Eye and Ear Infirmary offsite clinics

1990-95     Chairman, Department of Ophthalmology  
Bronx Lebanon Hospital Center  
Bronx, New York

1992-95     Director, Refractive Surgery Unit  
Montefiore Medical Center  
Bronx, New York

1995-     Director, Cornea and Refractive Surgery  
UMDNJ-New Jersey Medical School  
Newark, New Jersey

1995-     Director, Cornea and Laser Eye Institute

#### **OTHER PROFESSIONAL POSITIONS AND MAJOR VISITING APPOINTMENTS**

None

#### **AWARDS AND HONORS**

1978     Phi Beta Kappa, Princeton University  
1978     Princeton University Senior Thesis Prize  
1986     Merck, Sharp, and Dohme/Massachusetts Eye and  
Ear Infirmary Senior Resident Award

1989	Massachusetts Eye & Ear Infirmary Teacher of the Year Award	
1989	Fellow, Castroviejo Corneal Society	
1992	Fellow, American College of Surgeons	
1993	New York Magazine, Best Doctors in New York	
1994	American Academy of Ophthalmology Honor Award	
1998	Best Doctors in America, Woodward/White, Inc.	
1998	New Jersey Monthly, Best Doctors in New Jersey	
1999	Paul Harris Fellow Award, The Rotary Foundation of Rotary International	
1999	Pioneers in Refractive Surgery Award, presented by Summit Technology, Inc. at LASIK	Ins
2000	Honoree, 2000 Summit Autonomous Society	
2000	Nominee, American Ophthalmological Society	
2001	New York Magazine, Best Doctors in New York	
2001	Best Doctors in America, Woodward/White, Inc.	
2002	New Jersey Monthly, Top Docs in New Jersey	
2002	New York Magazine, Best Doctors in New York	
2002	Best Doctors in America, Woodward/White, Inc.	

## BOARD OF DIRECTORS/TRUSTEES

1995-present	Lions Eye Bank of New Jersey Board of Trustees Research Director
1996-present	New Jersey Academy of Ophthalmology Board of Governors Director, Continuing Medical Education

## MAJOR COMMITTEE ASSIGNMENTS

### a. National and Regional

1989-	Advisory Board, International Society of Ocular Trauma
1991-	Paton Society, Eye Bank Association of America - Research Committee - International Relations Committee

### b. Medical School

1998-	CME Committee, UMDNJ-New Jersey Medical School
1999-	Faculty Committee on Appointments and Promotions, UMDNJ-New Jersey Medical School

### c. Hospital

None

### d. Department

1995-	Medical Education Committee, Department of Ophthalmology, UMDNJ-NJMS
1995-	Executive Committee, Department of Ophthalmology, UMDNJ-NJMS

e. Editorial Boards

1997-99	Survey of Ophthalmology, Associate Editor, Ophthalmic Surgery Section
1996-	Ocular Surgery News, Editorial Board
1996-	Ophthalmology Times, Editorial Advisory Board
2001-02	Vision & Aging, Editorial Board

**SCIENTIFIC REVIEWER**

Archives of Ophthalmology  
American Journal of Ophthalmology  
Ophthalmology  
Cornea  
CLAO Journal  
Journal of Refractive Surgery  
Journal of Cataract and Refractive Surgery  
British Journal of Ophthalmology

**MEMBERSHIPS, OFFICES, AND COMMITTEE ASSIGNMENTS IN PROFESSIONAL SOCIETIES**

1979-	American Medical Association
1982-	Johns Hopkins Medical and Surgical Association
1983-89	Massachusetts Medical Society
1985-	American Academy of Ophthalmology
1986-	Massachusetts Eye and Ear Infirmary Alumni Association
1986-	Contact Lens Association of Ophthalmologists
1986-	SEVA Foundation for International Ophthalmology
1987-	Association for Research in Vision and Ophthalmology
1987-	National Eye Trauma System
1989-	Castroviejo Corneal Society, Fellow
1989-	International Society of Refractive Surgery
1989-	Advisory Board, International Society of Ocular Trauma
1990-	Ocular Microbiology and Immunology Group
1990-95	Bronx Medical Society
1991-	American Society of Cataract and Refractive Surgery
1991-	Paton Society, Eye Bank Association of America
	- Research Committee
	- International Relations Committee
1991-	Ophthalmological Associate, Research to Prevent Blindness
1992-	International Academy of Sports Vision
1992-	Summit International Laser Users Group
1992-	New York State Ophthalmological Society
1992-	Fellow, American College of Surgeons
1993-	New York Ophthalmic Laser Society
1993-	New York Society for Clinical Ophthalmology
1994-	Fellow, International Laser Surgery Society
1995-	New Jersey Academy of Ophthalmology, Board of Governors



2005- Fellow, American Ophthalmological Society

**INSTRUMENT DESIGN**

1. Hersh LASIK Retreatment Spatula B ASICO #AE-2776
2. Hersh LASIK Retreatment Forceps B ASICO #AE-4366
3. Hersh LASIK Flap Cannula BD Ophthalmics #585234

## BIBLIOGRAPHY

### ARTICLES:

1. Hersh PS. Separation and Characterization of the Messenger - RNA's Coding for Alpha-and Beta-Tubulin. Princeton University Thesis (May, 1978).
2. Cleveland DW, Hersh PS, Kirschner MW & Cowan, NJ. Isolation of Separate MRNA's for Alpha- and Beta-Tubulin and Beta- and Gamma Actin and Characterization of the Corresponding in vitro Translation Products. Journal Cell Biol. 1978;79:297.
3. Hersh PS, Green WR & Thomas JV. Tractional venous loops in diabetic retinopathy. Am J Ophthalm. 1981;92:661-669.
4. Melamed S, Hersh P, Kersten D, Lee DA & Epstein DL. The Use of Glaucoma Shell Tamponade in Leaking Filtration Blebs. Ophthalm. 1986;93:839-894.
5. Lee DA, Hersh P, Kersten D & Melamed S. Complications of Subconjunctival 5-Fluorouracil Following Glaucoma Filtering Surgery. Ophth. Surg. 1987;18:187-191.
6. Massicotte SJ, Hersh PS, Craft JS, Dickersin G & Albert DA. Olfactory Neuroblastoma Metastatic to the Eye. Graefes Arch. Ophthalm. 1987;225-285.
7. Hersh PS & Kenyon KR. Anterior Segment Reconstruction Following Ocular Trauma. Int. Ophth. Clin. 1988;28:57-68.
8. Dieste MC, Hersh PS, Kylstra J, Larrison W, Frambach D, & Shingleton B. Intraocular Pressure Increase with Epsilon Aminocaproic Acid Therapy for Traumatic Hyphema. Am. J. Ophthalm. 1988;106:383-387.
9. Kenyon KR & Hersh PS. Anterior Segment Reconstruction Following Ocular Trauma. An. Inst. Barraquer. 1988-1989;20:257-274.
10. Schuman JS, Hersh P & Kylstra J. Vitreous Hemorrhage Associated with Pilocarpine. Am. J. Ophthalm. 1989;108:333-334.
11. Dieste MC, Hersh PS, Kylstra J, Larrison W, Frambach D & Shingleton KB. Intraocular Pressure Increase with Epsilon Aminocaproic Acid Therapy for Traumatic Hyphema. Letter. Am.J. Ophthalm. 1989;107:569-570.
12. Hersh PS, Rice BA, Baer JC, Wells PA, Lynch SE, McGuigan LJB & Foster CS. Topical Nonsteroidal Agents and Corneal Wound Healing. Arch. Ophthalm. 1990;108:577-583.
13. Larrison WI, Hersh PS, Kunzweiler T & Shingleton BJ. Sports-Related Ocular Trauma. Ophthalm. 1990;97:1265-1269.
14. Strominger M, Sachs R & Hersh PS. Microbial Keratitis with Crack Cocaine. Arch. Ophthalm. 1990;108:1672-1674.
15. Hersh PS, Kenyon KR. Complications of Radial Keratotomy: Review of the Literature and

Implications for a Developing Country. Indian J. Ophthalmol. 1990;38:132-138.

16. Zagelbaum B, Tannenbaum M, Hersh PS. Candida Albicans Corneal Ulcer Associated with Crack Cocaine. Am. J. Ophthalmol. 1991;111:248-249.
17. Hersh PS & Kenyon KR. Penetrating Keratoplasty for Severe Complications of Radial Keratotomy. Cornea 1991;10:170-174.
18. Volpe NJ, Larrison WI, Hersh PS, Kim T & Shingleton BJ. Rebleeding in Traumatic Hyphema. Am. J. Ophthalmol. 1991;112:507-513.
19. Kenyon KR, Starck T & Hersh PS. Penetrating Keratoplasty and Anterior Segment Reconstruction for Severe Ocular Trauma. Ophthalmol. 1992;99:396-402.
20. Sachs R, Zagelbaum B & Hersh PS. Corneal Complications Associated with the Use of Crack Cocaine. Ophthalmol. 1993;100:187-191.
21. Volpe NJ, Larrison WI, Hersh PS, Kim T & Shingleton BJ. Secondary Hemorrhage in Traumatic Hyphema. Letter. Am. J. Ophthalmol. 1992;113:345-346.
22. Hersh PS, Spinak A, Garrana R & Mayers M. Excimer laser phototherapeutic keratectomy: strategies and results. Refractive and Corneal Surgery 1993;9:S90-S95.
23. Zagelbaum V & Hersh PS. Endocapsular Hyphema. J. Cat. Refract. Surg. 1993;19:413-414.
24. Hersh PS, Jordan AJ & Mayers M. Corneal graft rejection episode after excimer laser phototherapeutic keratectomy. Arch. Ophthalmol. 1993;111:735-736.
25. Zagelbaum B, Tostanoski J & Hersh PS. Urban Eye Trauma. Ophthalmol. 1993;100:851-856.
26. Zagelbaum B, Donnenfeld ED, Perry HD, Buxton J, Buxton D & Hersh PS. Corneal ulcer caused by combined intravenous and anesthetic abuse of cocaine. Am J Ophthalmol. 1993;116:241-242.
27. Zagelbaum BM, Tostanoski JR, Hochman MA & Hersh PS. Topical lidocaine and proparacaine abuse. Am. J. Emergency Med. 1994;12:96-97.
28. Hersh PS, Patel R. Excimer laser correction of myopia and astigmatism using an ablatable mask. Refractive Corneal Surg. 1994;10:250-254.
29. Zagelbaum BM, Hersh PS, Donnenfeld ED, Perry HD & Hochman MA. Ocular trauma in major league baseball players. New England Journal of Medicine. 1994;330:1021-1023.
30. Hersh PS. Iridoschisis following penetrating keratoplasty for keratoconus. Letter. Cornea. 1994;13:545-546.
31. Kenyon KR, Kenyon BM, Starck T & Hersh PS. Penetrating keratoplasty and anterior segment reconstruction for severe ocular trauma. German Journal of Ophthalmol. 1994;3:90-99.
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35. Schwartz-Goldstein B, Hersh PS. Summit PRK Topography Study Group. Corneal topography of phase III excimer laser photorefractive keratectomy: Optical zone centration analysis. Ophthalmol. 1995;102:951-962.
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41. Cohen AL, Hersh PS, Fleischman, JA. Management of trauma-induced cataracts. Ophthalmology Clinics of North America 1995;8:633-646.
42. Burnstein Y, Hersh PS. Photorefractive keratectomy following radial keratotomy. J Refract Surg. 1996;12:163-170.
43. Hersh PS, Shah S, Geiger D, Holladay J. Corneal topography irregularities after excimer laser photorefractive keratectomy. Best Paper of Session Supplement. J Cat Refractive Surg 1995;21:9-13.
44. Shah, SI, Hersh PS. Photorefractive keratectomy for myopia using a 6-mm optical zone. J Refract Surg. 1996;12:341-351.
45. Hersh PS, Shah SI, Durrie D. Monocular diplopia following excimer laser photorefractive keratectomy after radial keratotomy. Ophth Surg Lasers. 1996;27:315-317.
46. Hersh PS, Shah S, Holladay JT. Corneal asphericity following excimer laser photorefractive keratectomy. Ophth Surg Lasers. 1996;27S:421-428.
47. Hersh PS, Shah S, Geiger D, Holladay J, Summit Photorefractive Keratectomy Topography Study Group. Corneal optical irregularity after excimer laser photorefractive keratectomy. J.

Cat. Refract. Surg. 1996;22:197-204.

48. Hersh PS, Burnstein Y, Carr J, Etwaru G, Mayers M. Phototherapeutic keratectomy: surgical strategies and clinical outcomes. Ophthalm. 1996;103:1210-1222.
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50. Carr JD, Hersh PS. Excimer laser technology: key concepts for the ophthalmologist. Seminars in Ophthalm. 1996;11:212-223.
51. Shah S, Hersh PS. Evolving bias in reporting refractive surgery in the popular press. J. Refract. Surg. 1996;12:638-641.
52. Zigelbaum B, Starkey C, Hersh PS, Donnenfeld ED, Perry HD & Jeffers JB. The National Basketball Association eye injury study. Sports Vision 1996;12:7-11.
53. Hersh PS, Shah S, Summit PRK Topography Study Group. Corneal topography of 6.0 mm excimer laser photorefractive keratectomy: Characterization and clinical effects. Ophthalm. 1997;104:1333-1342.
54. Hersh PS, Stulting D, Steinert RF, Waring GO, Thompson K, Doney K, O'Connell M. Results of phase III excimer laser photorefractive keratectomy for myopia. Ophthalm. 1997;104:1535-1553.
55. Scher KS, Hersh PS. Disparity between refractive error and visual acuity after photorefractive keratectomy: Multifocal corneal effects. J Cat Ref Surg. 1997;23:1029-1033.
56. Hersh P. A standardized classification system for corneal topography patterns after laser refractive surgery. J Refract Surg. 1997;13:571-578.
57. Hersh PS, Scher KS, Irani R. Corneal topography of PRK and LASIK. Ophthalm. 1998;105:612-619.
58. Huang JC, Ishida M, Hersh P, Sugino IK, Zarbin MA. Preparation and transplantation of photoreceptor sheets. Current Eye Research 1998;17:573-585.
59. Hersh PS, Brint SF, Berkeley RB, Durrie DS, Gordon M, Maloney RK, Michelson MA, Thompson VM. PRK versus LASIK for moderate to high myopia: A prospective randomized study. Ophthalmology 1998;15:1512-1522.
60. Steinert RF, Hersh PS. Spherical and aspherical photorefractive keratectomy and laser in situ keratomileusis for moderate to high myopia: Two prospective, randomized clinical trials. Tr Am Ophth Soc 1998;96:197-227.
61. Abbas U, Hersh PS. Natural history of corneal topography after excimer laser photorefractive keratectomy. Ophthalmology, 1998;15:2212-2224.
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63. Abbas U, Hersh PS. Early corneal topography after excimer laser photorefractive keratectomy. Ophthalmology, 1999; 115:22-26.
64. Chiang PK, Hersh PS. Comparing predictability between eyes after bilateral laser in situ keratomileusis. Ophthalmology, 1999;106:1684-1691.
65. Hersh PS, Abbassi R. Surgically induced astigmatism after photorefractive keratectomy and laser in situ keratomileusis. J Cataract Refract Surg, 1999;25:389-398.
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67. Hersh PS, Steinert RF, Brint SF. Photorefractive keretectomy versus laser in situ keratomileusis. Comparison of optical side effects. Ophthalmology 2000;107:925-933
68. Ginsberg NE, Hersh PS. Effect of lamellar flap location on corneal topography after laser in situ keratomileusis. J Cataract Refract Surg. 2000;26:992-1000.
69. Dastgheib KA, Clinch TE, Manche EE, Hersh P, Ramsey J. Sloughing of corneal epithelium and wound healing complications associated with laser in situ keratomileusis in patients with epithelial basement membrane dystrophy. Am J Ophthalmol 2000;130:297-303.
70. Lumba J, Hersh PS. Topography changes associated with sublamellar epithelial ingrowth after laser in situ keratomileusis. J Cataract Refract Surg 26;2000:1413-1416.
71. Karp KO, Hersh PS, Epstein RJ. Delayed keratitis after laser in situ keratomileusis. J. Cat Refract Surg 2000;26:925-928.
72. Abbas UL, Hersh PS. Late natural history of corneal topography after excimer laser photorefractive keratectomy. Ophthalmology 2001;108:953-959.
73. Asbell PA, Maloney RK, Davidorf J, Hersh P, McDonald M, Manche E. Conductive keratoplasty for the correction of hyperopia. Trans AM Ophthalmology Society 2001; 99:79-97.
74. McDonald MB, Davidorf J, Maloney RK, Manche EE, HershP. Conductive Keratoplasty for the correction of low to moderate hyperopia. Ophthalmology 2002; 109:637-649.
75. Leu G, Hersh PS. Phototherapeutic keratectomy for the treatment of diffuse lamellar keratitis. J Cat Refract Surg 2002;28:1471.1474.
76. Hersh PS, Ratkaran R, Hersh D. Contact lens evaluation of corneal topography irregularities after laser refractive surgery. J Cat Refract Surg 2002;28:2054-2057.
77. McDonald MB, Hersh P, Manche EE, Maloney RK, Davidorf J, Sabry M. Conductive Keratoplasty for the correction of low to moderate hyperopia: U.S. clinical trial 1-year results on 355 eyes. Ophthalmology 2002; 109:1978-1990.
78. Hersh PS, Fry KL, Bishop DS. Incidence and associations of retreatment after LASIK. Ophthalmology 2003;110:748-754.

79. Hersh PS, Fry KL, Blaker JW. Spherical aberration after LASIK and PRK. *J Cat Refract Surg* 2003;11:2096-2104.
80. Klein S, Fry KL, Hersh PS. LASIK after conductive keratoplasty. *J Cat Refract Surg* 2004;30:702-705.
81. Steinert RF, Ashrafzadeh A, Hersh PS. Results of phototherapeutic keratectomy in the management of flap striae after LASIK. *Ophthalmology* 2004;111:740-746.
82. Hersh PS, Fry K. Conductive keratoplasty to treat LASIK complications. *Ophthalmology* 2005 (in press).
83. Hersh PS. Conductive keratoplasty. *Trans Amer Ophth Soc.* (in press)

#### **TEXTBOOKS:**

1. Hersh PS. *Ophthalmic Surgical Procedures*. Boston: Little, Brown & Co. 1988, 450 pp.
2. Shingleton B, Hersh PS and Kenyon KR. *Eye Trauma*. St. Louis: C.V. Mosby, 1991, 380 pp.
3. Hersh PS. *Ophthalmic Surgical Procedures* (Japanese edition). Tokyo:Medical Sciences International 1991, 450 pp.
4. Shingleton B, Hersh PS and Kenyon KR. *Traumatismos Oculares* (Spanish edition). London: Mosby-YearBook 1991, 380 pp.
5. Hersh PS, Wagoner MD. *Therapeutic Uses of the Excimer Laser for Corneal Disease*. New York: Thieme Publishing 1998, 161 pp.
6. Wu H, Steinert R, Thompson V, Slade S, Hersh PS. *Refractive Surgery*. New York: Thieme Publishing 1998, 500 pp.

#### **BOOK CHAPTERS:**

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2. Hersh PS, Shingleton BJ & Kenyon KR. Management of corneoscleral lacerations. In: *Eye Trauma* Shingleton B, Hersh PS & Kenyon KR. (Eds); C.V. Mosby, St. Louis, 1991; pp107-132.
3. Hersh PS & Kenyon KR. Anterior segment reconstruction following ocular trauma. In: *Eye Trauma* Shingleton B, Hersh PS & Kenyon KR. (Eds); C.V. Mosby, St. Louis, 1991; pp 148-162.

4. Kenyon KR, Hersh PS, Starck T and Fogle JA. Corneal Dysgeneses, Dystrophies and Degenerations. In: *Duane's Clinical Ophthalmology*. Tasman W (Eds); J.B. Lippincott, Philadelphia, 1992; pp 1-22.
5. Kenyon KR, Starck T & Hersh PS. Anterior Segment Reconstruction after Trauma. In: *Corneal Surgery*, Brightbill, F.S. (Eds); C.V. Mosby, St. Louis, 1993; pp 352-359.
6. Tortora CM, Blaker JW & Hersh PS. The Optics of Intraocular Lenses. In: *Principles and Practice of Ophthalmology*. Jakobiec & Albert (Eds); W.B. Saunders, Philadelphia, 1993; pp 3648-3662.
7. Hersh PS & Shingleton BJ. Anterior Segment Ocular Trauma. In: *Principles and Practice of Ophthalmology*. Jakobiec & Albert (Eds); W.B. Saunders, Philadelphia, 1993; pp 3383-3403.
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